

U.S. Department of Transportation

## IAEA CERTIFICATE OF COMPETENT AUTHORITY SPECIAL FORM RADIOACTIVE MATERIALS

Pipeline and Hazardous Materials Safety Administration CERTIFICATE USA/0078/S-96, REVISION 12

This certifies that the source described has been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency $^1$  and the United States of America $^2$  for the transport of radioactive material.

- 1. Source Identification Gulf Nuclear Model CSV.
- 2. Source Description Cylindrical welded double encapsulation made of Type 17-4 stainless steel. Approximate outer dimensions are 5.0 mm (0.2 in.) to 25.4 mm (1.0 in.) in diameter and 12.7 mm (0.5 in.) to 76.2 mm (3.0 in.) in length. Construction shall be in accordance with attached Gearhart Drawing No. 015-2011-039 or Dresser Atlas Drawing No. 88645.
- 3. Radioactive Contents No more than either 111.0 GBq (3.0 Ci) of Thulium-170 as an oxide, 370.0 GBq (10.0 Ci) of Cesium-137 as ceramic pellets, 185.0 GBq (5.0 Ci) of Cobalt-60 as a metal, 74.0 GBq (2.0 Ci) of Americium-241 as an oxide, or 1.85 GBq (0.05 Ci) of Radium-226 as a sulfate.
- 4. Management System Activities Records of Management System activities required by Paragraph 306 of the IAEA regulations shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors in the United States exporting shipments under this certificate shall satisfy the requirements of Subpart H of 10 CFR 71.

<sup>&</sup>lt;sup>1</sup> "Regulations for the Safe Transport of Radioactive Material, 2012 Edition, No. SSR-6" published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

<sup>&</sup>lt;sup>2</sup> Title 49, Code of Federal Regulations, Parts 100-199, United States of America.

## CERTIFICATE USA/0078/S-96, REVISION 12

5. Expiration Date - This certificate expires on July 31, 2025. Previous editions which have not reached their expiration date may continue to be used.

This certificate is issued in accordance with paragraph(s) 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the May 1, 2020 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:

William Schoonover

William Schoonover Associate Administrator for Hazardous Materials Safety July 16, 2020 (DATE)

Revision 12 - Issued to extend the expiration date.

1

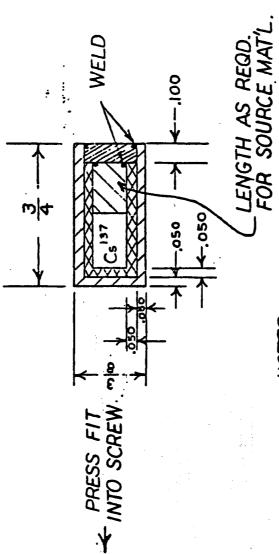
1

015-2011-039

MODIFY 1/2 X 3/4 SOCKET HEAD CAP SCREW AS SHOWN 18 THDS PER INCH (STAINLESS STEEL)

SOURCE STRENGTH:

2.1 CURIE -100 MILLICURIE +200 MILLICURIE CESIUM 137



<u>ε</u>

\$ - 18 Thd 15 7

WELD .

NOTES:

1 MATL: 174 PH/316 S.S.

WA: 003- 4703.000 003-4703-800

	Moustries, Inc.	BOX 1936 - FORT WORTH, TEXAS 76101
	DEARHART	901 X08
TOLERANCES UNLESS NOTED OTHERWISE	(DECIMAL ±.008) (FRACTIONAL ±1/64) (ANGULAR ±1/2*)	DIAMETERS CONCENTRIC TO T. T.I.R. PINISH MARK V. (NDICATES POLISH PINISH BROAM BLADE STORE WITH J'AR BADINE

	,				MATL:	$\Theta$	2	IFM)	COMPENSATED DENSITY SOURCE	URCE
m	ECO . 11 13-1	کم	M ED-12-01	ì	HEAT TREAT	1N/A		:		) •
2	ECO 9713	Som	11/12125	.3	SCALE:	117		DEAWN BY: J T	20 CESHIM 137	
<u>\'</u>	ECO # 2493	A.F. 10	10.67	14	DATE: //	1-11-1	11	APPROVED BY:		
7										

W



Title Dresser Atlas 2Ci Cesium 137 Source

XX 20 3 1 22

Date Oct 1980

Drawing No. 88645

sheath drg A88643 A88644 cell sheath XN 226 ceramic diameter 2 0.22 cell XN 225

Dims inches

Scale 4:1



## U.S. Department of Transportation

Pipeline and Hazardous Materials Safety Administration

CERTIFICATE NUMBER: USA/0078/S-96

## ORIGINAL REGISTRANT(S):

QSA Global, Inc. 30 North Avenue Burlington, MA, 01803 USA

Baker Hughes Baker Atlas 2001 Rankin Road Houston, TX, 77073 USA

Halliburton 3000 North Sam Houston Parkway, East Houston, TX, 77032 USA